

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Risvan Coskun
TITLE : Apparatus and method of wireless instant messaging
SERIAL NO. : 10/667,094
FILING DATE : 9/19/2003
EXAMINER : Cai, Wayne
GROUP ART UNIT : 2681
ATTORNEY DOCKET NO. : 555255012568

Declaration of Prior Invention to Overcome Cited Patents Under 37 C.F.R. § 1.131

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This Declaration is submitted by the undersigned inventors to establish that the subject matter described and claimed in this application was invented prior to July 16, 2002, which is the filing date of US patent application 2004/0015569 to Lonnfors ("Lonnfors").

We, Risvan Coskun, Robert D. Oliver, Haining Zhang, and Luis P. Estable, the inventors of United States Patent Application S/N 10/667,094, titled "Apparatus and Method of Wireless Instant Messaging" declare as follows:

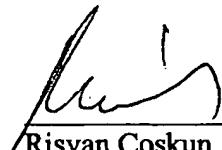
1. Prior to July 16, 2002, we conceived of the subject matter described and claimed in the above-titled patent application. Evidence of this conception is set forth at Tabs A

and B hereto. The document set forth at Tab A is an Invention Disclosure Form prepared prior to July 16, 2002. This Form describes the invention set forth in the present patent application. See, for example, paragraph 2 of the IDF, in which the invention is described, generally, and the attached Figure 1, which sets forth an example system architecture of the invention that is similar to Figure 3 of the patent application. Further evidence of the early conception of the claimed invention is provided in the document attached hereto at Tab B. This document is a presentation made by one of the inventors prior to July 16, 2002. In this presentation, the claimed invention is further described, an example network architecture is provided (slide 4), the client and server sides are described (slides 5 and 6), extending IM states with presence states, activity states, proximity states, etc. is described (slide 7), and various instant messaging source services are described (slides 8-15).

2. The documents set forth at Tabs A and B were provided to the assignee's in-house patent counsel prior to July 16, 2002. The in-house patent counsel, who is also one of the named inventors, Mr. Estable, then diligently worked on this application from prior to July 16, 2002 up through September 19, 2002, when the provisional application S/N 60/411744 was filed with the USPTO.

3. We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

By:

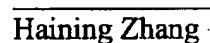

Risvan CoskunDate: 22/9/2005

By:


Robert D. Oliver

Date: _____

By:

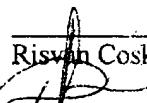

Haining Zhang

Date: _____

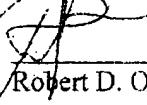
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Luis P. EstableDate: 22/9/2005

By:


Risvan Coskun

By:


Robert D. Oliver

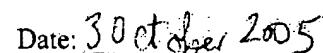
By:

Haining Zhang

By:

Luis P. Estable

Date:


30 October 2005

Date:

Date:

By: _____
Risvan Coskun

Date: _____

By: _____
Robert D. Oliver

Date: _____

By: Zhang Haining
Haining Zhang

Date: 10/02/2005

By: _____
Luis P. Estable

Date: _____



Invention Disclosure Form

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DISCLOSURE DATE:

Reference Number:
TO BE ASSIGNED BY:

THE PURPOSE OF THIS FORM IS TO:

- bring to the attention of the Legal Department the development of ideas that are believed to be novel and of value to RIM;
- provide a description of the Invention that establishes an invention date;
- provide RIM's outside patent counsel with a description of the Invention that facilitates processing of a patent application.

Complete this form by typing the information requested. Submit the completed disclosure form with any additional material requested below to the Legal Department.

1. TITLE OF INVENTION: Enter a short descriptive phrase that will serve as the title of the Invention.

Instant Position Messaging Services System and Method for a Mobile Device

2. DESCRIPTION OF INVENTION: Enter a brief description of the nature and application of the Invention.

The invention combines cellular infrastructure with mobile device, cell, and service positioning means to allow instant position messaging services to be provided to registered mobile device users by registered service providers. An instant position messaging server communicates datagrams between the mobile devices themselves, and between registered services and mobile devices.

On one hand single user services include emergency services, whereby the mobile device communicates its position to the instant position messaging server. The server then locates local emergency service providers, such as an ambulance, paramedics, road side assistance, police, etc.. and communicates the emergency service request to a local emergency service provider.

The same concept can be used for other non-emergency services, such as shopping services. Local broadcast information at the mobile device can be sent to local service providers to indicate which services the user wishes to be notified about when the user is proximate enough to the service provider.

To find services, or to find their way to desired locations, users can access navigation services.

Inventors:

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This Invention has been witnessed and
understood by me:

FULL NAME (TYPE)	SIGNATURE	Date
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Invention Disclosure Form

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On the other hand, the instant position messaging server can serve as a conduit for peer to peer instant position messaging whereby users in the "buddy list" of a mobile device are notified based on their relative proximity to each other, or to an agreed upon location.

The greatest benefits occur when the two types of services are combined. For instance, any one user might invite his "buddies" out to supper and specify an associated "meal" service along with his invitation. The instant position messaging server could then locate "meals" which are "proximate" to all of the budies and the user, taking into account any of their registered preferences, for instance one user might be vegetarian, or another might not want to spend more than 10\$. When a "buddy" receives the invitation, they also might get a list of restaurants along with the supper invitation, for which they could indicate their preference. The restaurants would be ranked in order of proximity first, also indicating any constraints which were or could not have been met. The server could then send the result of the preference selection to the user and help each buddy to navigate to the agreed upon location.

3. Identify the projects and products where the Invention may be incorporated.

GRPS, CDMA, UMTS, 2G, 2.5G and 3G networks which support WAP and/or iMode.

Preferably a mobile device which supports GPS is used, or else other positioning means such as the position of the cell in a GIS can be used, in absence of which triangulation from various base stations, and/or signal strength or other positioning means can be used.

4. The following dates apply to the Invention:

a) Date marketing began (or is planning to begin) for any products utilizing the Invention: ___/___/___.
b) Date RIM shipped (or has plans to ship) any product utilizing the Invention: ___/___/___.

Inventors:

FULL NAME (TYPE)	SIGNATURE	Date
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This Invention has been witnessed and
understood by me:

FULL NAME (TYPE)	SIGNATURE	Date
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Invention Disclosure Form

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c) Date any written material in which the Invention is described, has been (or will be) distributed: / / .

d) If the Invention has been described to anyone outside of RIM who has not signed a confidentiality agreement enter date, names, and circumstances surrounding the disclosure:

 Date: / /
 Names:
 Circumstances:

e) If the Invention has been used by anyone outside of RIM enter date, names and circumstances:

 Date: / /
 Names:
 Circumstances:

f) First recorded a description of the Invention / / in _____ presently available at _____

g) When was a model of the Invention completed: / / .

h) When was a photo of the model taken: / / .

i) Device or system utilizing the Invention first tested on / / by _____ at _____
_____. Was the test successful? _____

No scheduled release date.

5. Describe the concern or problem your Invention addresses.

Lack of local area focus in mobile services.

6. Identify any devices or systems known to you that address the same concern or problem. (Also include those developed by RIM and any known patents or publications that address the problem (attach copies).

Commercially Available:

Inventors:

FULL NAME (TYPE)	SIGNATURE	Date
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Invention Disclosure Form

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None

Patented devices:

None.

7. Identify the differences between your Invention and each known device or article described above and describe any impact those differences can have in providing value to _____.

8. Identify any other unique aspects of your Invention.

Advantages:

Brings together service providers, positioning, and instant messaging.

Inventors:

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Invention Disclosure Form

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9. Provide a detailed description of your Invention. Attach any drawings, circuit diagrams, or other documentation that describes the Invention; where appropriate, apply reference numerals to drawings and use those reference numerals in your detailed description. You must disclose the best mode you know for practicing the Invention.

See summary.

Risvan still working on systems diagram:

Inventors:

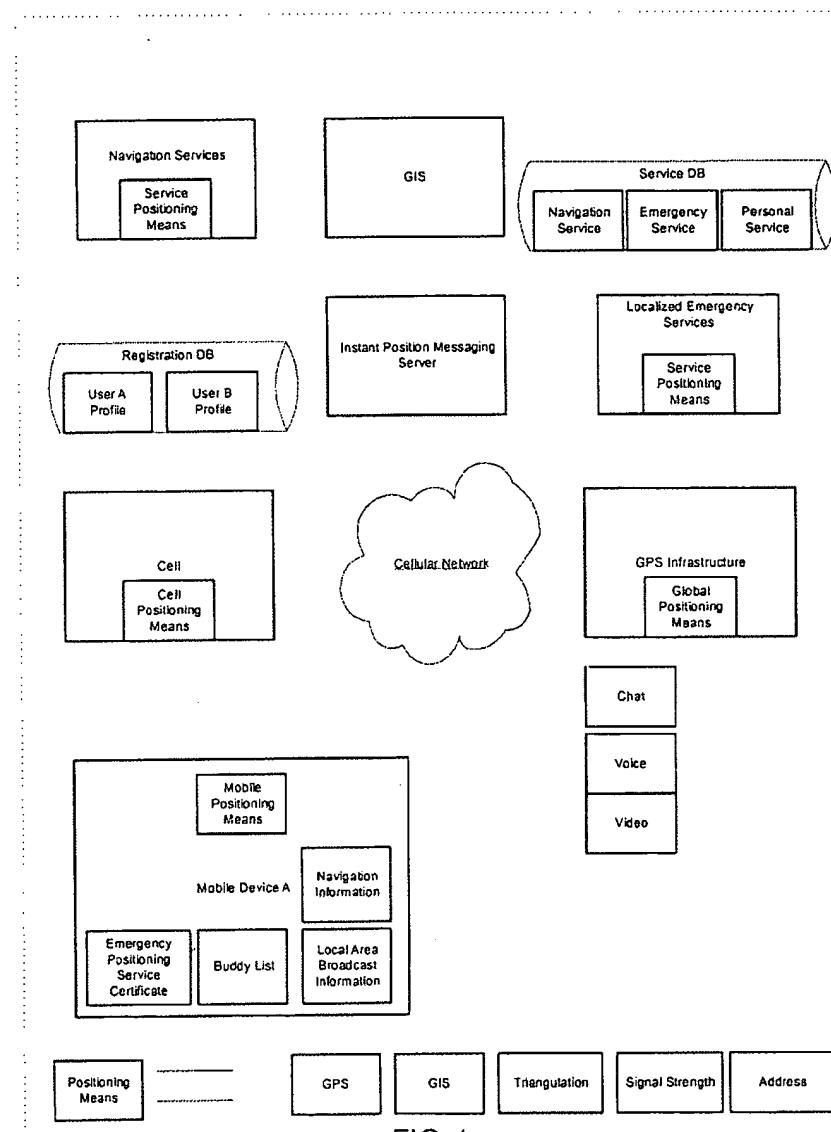
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Page 6 of 10
DISCLOSURE DATE:

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Inventors:

FULL NAME (TYPE) SIGNATURE Date

This Invention has been witnessed and
understood by me:

FULL NAME (TYPE) SIGNATURE Date

Wireless Instant Messaging Platform: A Summary of the Patent for Next Generations

**RESTRICTED
DISTRIBUTION**

by

Risvan Coskun

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Outline

Outline

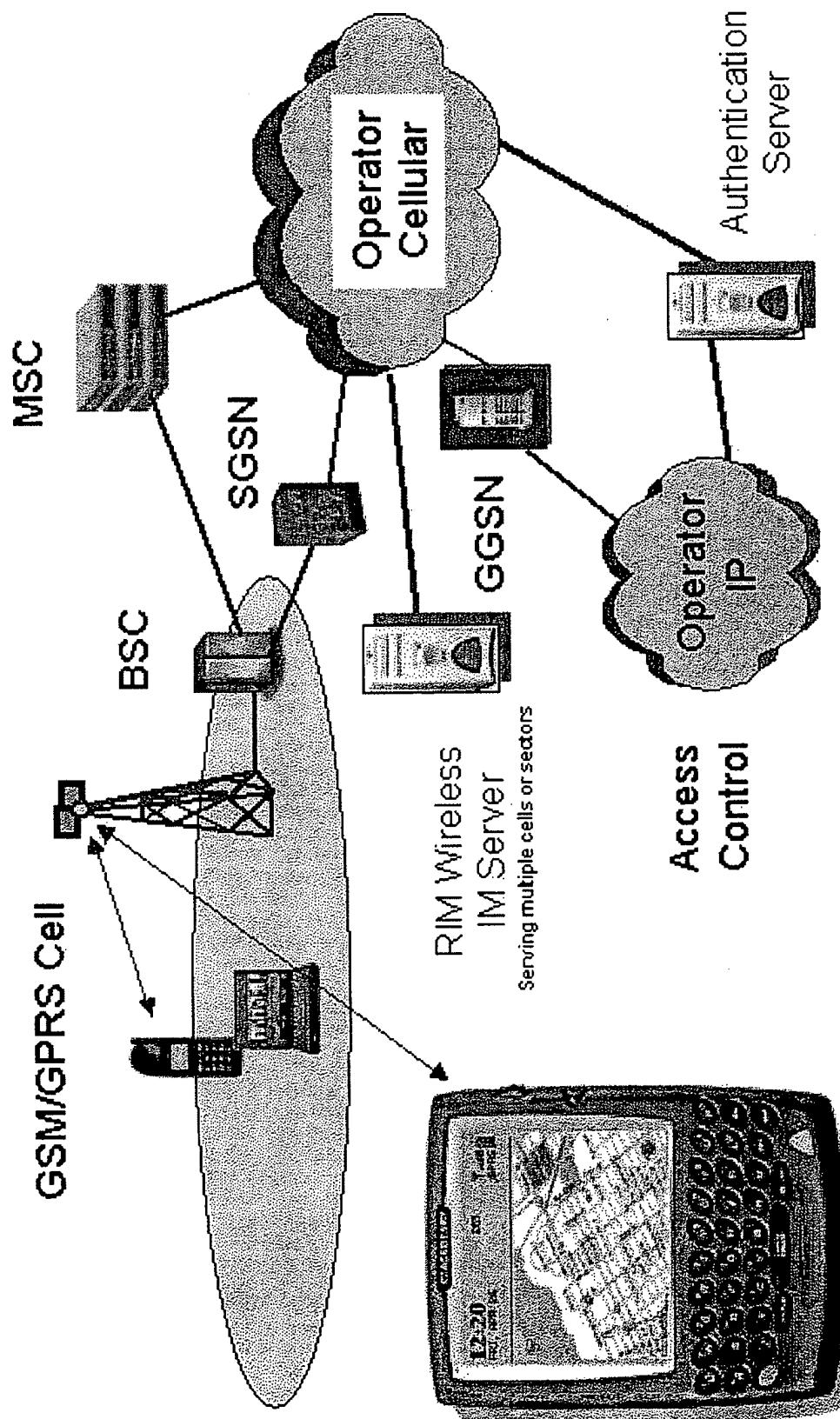
- Goal
- Description
 - Network Architecture
 - Client Side
 - Server Side
 - New Wireless IM States
- Use Cases/ Services
- DEMO for short term

Goal

- Unified Platform for Instant Data Messaging (text, file, image, audio, video etc)
- Integrated E-mail and IM servers
- Unified and Increased Services Platform with Open Standards and Open BlackBerry
 - Examples: e-911, e-411, e-Bell, e-Operator, e-FireAlarm, e-Police, e-Rescue, e-Medicare, etc. etc.
- Increased wireless contents to deliver over the air for more revenues for carriers as well as content providers.
- Integrated with or Utilize Operators Cellular Infrastructure
- Ultimate volunteer mobile user / persona tracking

!!!NEVER USE CIRCUIT SWITCHED SERVICES!!! ☺

Network Architecture (GPRS example)



Client Side

- Unified Platform for Instant Data Messaging

Or

- Wireless Instant Messaging Client Application

FOR

- Wireless to Wireless clients
- Wireless to Wired clients
- Wired to Wireless clients

IM capability using

- GPRS, CDMA or UMTS outdoor; and

- 802.11a, .11b etc indoor

transport technologies

Server Side

Unified Platform for Instant Data Messaging Platform Supporting

- e-911, e-411, e-Operator (text or voice based over IP)
- e-mail to e-IM conversion (RIM BES or ISP connectivity)
- Instant Translation, Match Making, Shopping, Rescue or Visiting
- Maintaining user *extended wireless IM states*; and dynamic user presence
- User / persona tracking (GPRS x,y coordinates; cell ids or time-stamps)
- User profiles, hobbies, list of groups; personal and/or family or group or friends calendars-events
- Downloadable/uploadable and user designed multi ring-tones, skins
- IP telephony

Extended Wireless IM States

- Presence States (i.e. ICQ like)
- Activity States (LOOKING, SHOPPING, VISITING etc.)
- Proximity States per contact (Sector, Cell, City, Province, Country:: near-by, far-away)
- Transport States (Broad, Narrow, Inhibit)
- State Attributes (Public, Private)

Use Cases/Services

HOW DOES IT WORK?

Some use case examples

1. Emergency (accident, medicare or fire) (Instant Rescue)
2. Your friend from NY city visits Ottawa (Instant Visiting)
3. You need a new skin for your app. Or even better: you developed a new skin or ring tone; and you want to share. (Instant Skin or Ring Tone)
4. You are very shy and you want to meet new people (Instant Match Making)
5. You want to buy something but no time for shopping (Instant Shopping)

LIST GOES ON AND ON!

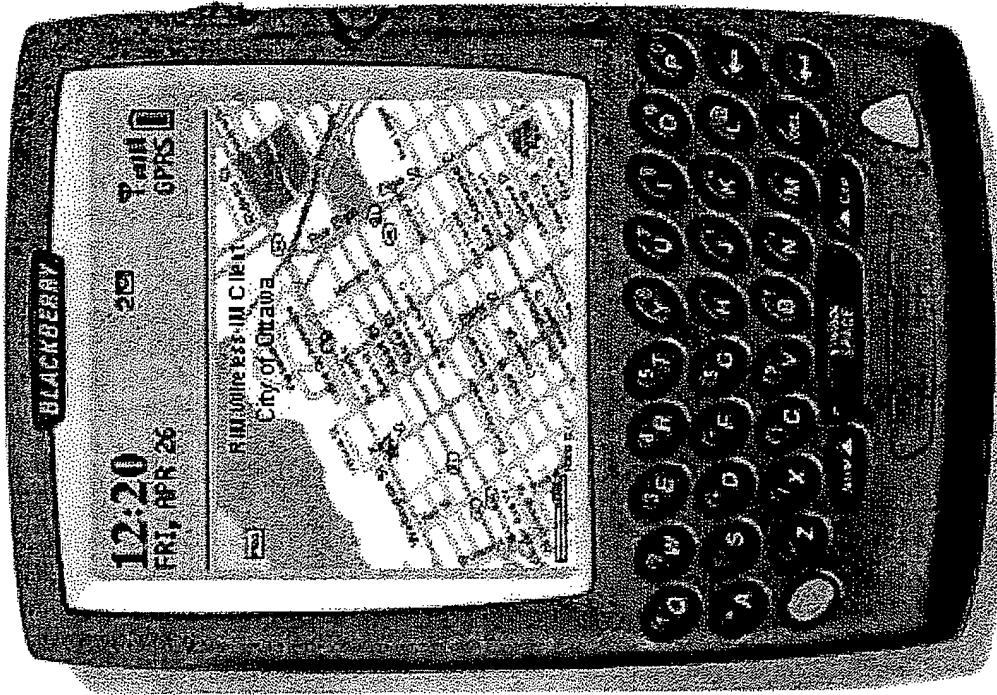
Instant Rescue

HOW DOES IT WORK?

1. Persona had an accident, and send e-Rescue/e-911 signal (no location info provided)
2. Operator's cellular infrastructure detected the RF activity and the associated time-stamps or cell/sector ids and provided to RIM IM Server (assuming no built-in GPS in the handheld. With GPS that would be fantastic!)
3. RIM IM Server located the accident's coordinates
4. RIM IM Server invoked the emergency teams closest to the area with the location and persona info (including medical profile)

Instant Rescue

Well, that would be nice if we can display a map and pinpoint the exact location of the accident!



Instant Visiting

HOW DOES IT WORK?

1. Your friend living in NY City publicizes her proximity state and her presence VOLUNTEERLY.
2. Operator's cellular infrastructure detected the RF activity and roaming that your friend's device performing due to her/his mobility
3. RIM IM Server identifies her/his presence in Ottawa and alerts you.
4. If you want to publicize your presence and to meet your friend just send an IM.

Instant Skin/Ring Tone

HOW DOES IT WORK?

1. User want a new skin for her app.
2. User *searches* available skins over the registered RIM WIM users public skins or RIM's official skin base.
3. User *selects* the skin and downloads it.
4. User might want to *change* the alerts for her IM. *Searches* for new ones and download them

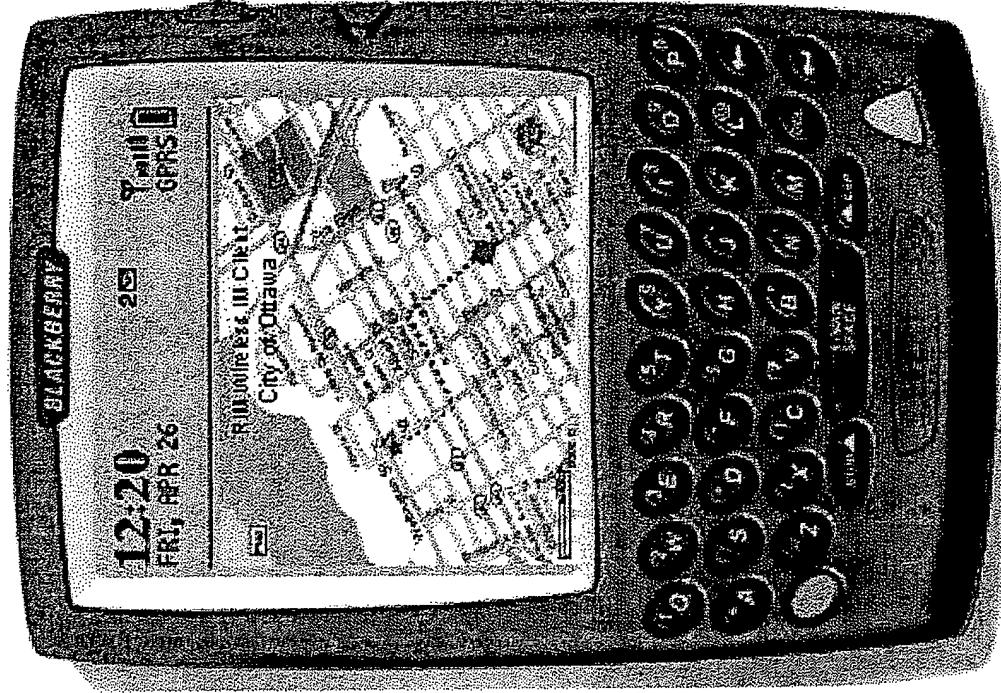
Instant Match Making

HOW DOES IT WORK?

1. User/persona is very shy or cannot meet another person to be with
2. User publicizes her/his profile, hobbies, pics and even a voice/video about herself/himself.
3. User sets her presence state to LOOKING (a new state)
4. RIM IM Servers matches the best profile and alerts the closest ones to the user.
5. User downloads other profiles information and selects to meet one of them (or even all).
6. User sends an IM to selected persona to meet.
7. Well, of course, the other user might not want to meet the user based on the profile he/she provided ☺ Be creative! ☺

Instant Match Making

Well, if both parties
agreed on the
meeting, go ahead,
find their way out!
See the directions on
your handheld... ☺



Instant Shopping

HOW DOES IT WORK?

1. User/persona is *very* busy but no time for buying a present for her/his partners BD, or anniversary or *anything else*.
2. User sets a shopping list in the server; 3rd party shopping content providers try to match *what* user wants
3. User then sets her activity state to SHOPPING (another new state)
4. RIM IM Servers matches the best 3rd party contents provided for shopping items and alerts the *closest ones* to the user *when* she is near-by.
5. User checks the information, price and directions.
6. If user likes *what is seen*; then performs and INSTANT SHOPPING ☺

Conclusion

1. Try to eliminate expensive circuit switched services and create more alternative to wireless users (such as emergency services)
2. Connect people with wireless IM platform *FOR THE FIRST TIME USING CELULAR INFRASTRUCTURE* (that is the main portion of the patent)
3. People tracking based on personal, family and other people's volunteer willing using IM technology (other half of the patent).
4. It is doable, technologically feasible, and it is a necessity for daily life.
5. BB can save more time per busy person on a daily basis.
6. It can well penetrate the mass market with these type of services.
7. More revenue opportunities with more data traffic such as ring tones, app skins, personal profiles and images etc.